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Linda Tauscher, Saul Greenberg

March 1997

**Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available: [pdf\(984.35 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** WWW, history mechanisms, hypertext, navigation, web2 [World Wide Web: Keeping found things found on the web](#)

William Jones, Harry Bruce, Susan Dumais

October 2001

**Proceedings of the tenth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: [pdf\(1.41 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the results of an observational study into the methods people use to manage web information for re-use. People observed in our study used a diversity of methods and associated tools. For example, several participants emailed web addresses (URLs) along with comments to themselves and to others. Other methods observed included printing out web pages, saving web pages to the hard drive, pasting the address for a web page into a document and pasting the address into a personal w ...

**Keywords:** human-computer interaction, information retrieval, personal information management, world wide web use3 [The tangled Web we wove: a taskonomy of WWW use](#)

Michael D. Byrne, Bonnie E. John, Neil S. Wehrle, David C. Crow

May 1999

**Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**

Publisher: ACM Press

Full text available: [pdf\(1.08 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A prerequisite to the effective design of user interfaces is an understanding of the tasks for which that interface will actually be used. Surprisingly little task analysis has appeared for one of the most discussed and fastest-growing computer applications, browsing the World-Wide Web (WWW). Based on naturally-collected verbal protocol data, we present a taxonomy of tasks undertaken on the WWW. The data reveal that several previous claims about browsing behavior are questionable, and ...

**Keywords:** World-Wide Web, task analysis, video protocols4 [Visualization: Improving list revisitation with ListMaps](#)

Carl Gutwin, Andy Cockburn

May 2006

**Proceedings of the working conference on Advanced visual interfaces AVI '06**

Publisher: ACM Press

Full text available: [pdf\(348.58 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Selecting items from lists is a common task in many applications. Alphabetically-sorted listboxes are the most common interface widget used to accomplish this selection, but although general they can be slow and frustrating to use, particularly when the lists are long. In addition, when the user regularly revisits a

small set of items, listboxes provide little support for increased performance through experience. To address these shortcomings, we developed a new list selection device called a Li ...

**Keywords:** list selection, listboxes, listmaps, revisitation

##### 5 Interactive video posters: Movement in the web



Oscar de Bruijn, Robert Spence, Chieh Hao Tong

March 2001

**CHI '01 extended abstracts on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(212.18 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we illustrate the use of space-time trade-offs for information presentation on small screens. We propose the use of Rapid Serial Visual Presentation (RSVP) to provide a rich set of navigational information for Web browsing.

**Keywords:** mobile communication, navigation, rapid serial visual presentation, small screens, web browsing

##### 6 Using a starfield visualization for analyzing product performance of online stores



Juhnyoung Lee, Mark Podlaseck

October 2000

**Proceedings of the 2nd ACM conference on Electronic commerce**

Publisher: ACM Press

Full text available: pdf(363.32 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** electronic commerce, marketing, merchandising, visualization

##### 7 Improving the browsing experience: Information search and re-access strategies of experienced web users



Anne Aula, Natalie Jhaveri, Mika Käki

May 2005

**Proceedings of the 14th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(212.45 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Experienced web users have strategies for information search and re-access that are not directly supported by web browsers or search engines. We studied how prevalent these strategies are and whether even experienced users have problems with searching and re-accessing information. With this aim, we conducted a survey with 236 experienced web users. The results showed that this group has frequently used key strategies (e.g., using several browser windows in parallel) that they find important, whe ...

**Keywords:** experienced web users, information re-access, questionnaire study, web search

##### 8 PowerBookmarks: a system for personalizable Web information organization, sharing, and management



Wen-Syan Li, Quoc Vu, Edward Chang, Divyakant Agrawal, Kyoji Hirata, Sougata Mukherjea, Yi-Leh Wu, Corey Bufi, Chen-Chuan Kevin Chang, Yoshinori Hara, Reiko Ito, Yutaka Kimura, Kezuyuki Shimazu, Yukiyoishi Saito

June 1999

**ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99, Volume 28 Issue 2**

Publisher: ACM Press

Full text available: pdf(398.59 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

##### 9 Une démarche structurée pour la conception et l'évaluation d'applications Web par l'exploitation synergique des modèles de tâche et de navigation



Marco Winckler, Christelle Farenc, Philippe Palanque

November 2002

**Proceedings of the 14th French-speaking conference on Human-computer interaction (Conférence Francophone sur l'Interaction Homme-Machine) IHM '02**

Publisher: ACM Press

Full text available: pdf(2.33 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Even though the importance of Web applications is still increasing, design practice in this area is still mainly based on informal techniques and methods. In practice, few description techniques are available to support web modeling and it is unusual to model web applications even though modeling is usually the

corner stone of "classical" computer applications. Models not only formalize requirements but also they can help to assess the design in all the stages of the development process. In this ...

**Keywords:** navigation modeling, notations, task modeling, usability evaluation, web design

10 Doctoral consortium: Developing tools for efficient collaborative web browsing



Guillermo S. Zeballos

May 1999

**CHI '99 extended abstracts on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(210.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Collaborative web browsing can provide a practical approach for searching the vast quantities of information on the WWW. While browsers that support group web browsing exist, their support is limited to lockstep browsing, in which multiple clients are slaved to one browser. They do not permit individual collaborators to navigate separate paths while coordinating their efforts. This paper discusses my current investigation into modeling the behavior of, and developing tools to support, people mak ...

11 Data mountain: using spatial memory for document management



George Robertson, Mary Czerwinski, Kevin Larson, Daniel C. Robbins, David Thiel, Maarten van Dantzich

November 1998

**Proceedings of the 11th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available: pdf(1.78 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** 3D user interfaces, desktop VR, document mangement, information visualization, spatial cognition, spatial memory

12 Get a way back: evaluating retrieval from history lists

Michael JasonSmith, Andy Cockburn

February 2003

**Proceedings of the Fourth Australasian user interface conference on User interfaces 2003 - Volume 18 AUIC '03**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(551.37 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many user interfaces include history lists that help users retrieve temporally ordered information such as previously visited web pages, email messages, and recently used files. Two main types of history lists are widely used. The first type, typified by Netscape Navigator's history list, provides a linear temporally ordered list. The second type, typified by Microsoft Internet Explorer's history list, provides a hierarchical structure based on temporal chunks such as "Today" and "Last Week" at ...

**Keywords:** browsing history, document retrieval, history lists, temporal aspects of usability

13 Web and design: The impact of task on the usage of web browser navigation mechanisms

Melanie Kellar, Carolyn Watters, Michael Shepherd

June 2006

**Proceedings of the 2006 conference on Graphics interface GI '06**

Publisher: Canadian Information Processing Society

Full text available: pdf(259.86 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we explore how factors such as task and individual differences influence the usage of different web browser navigation mechanisms (e.g., clicked links, bookmarks, auto-complete). We conducted a field study of 21 participants and logged detailed web browser usage. Participants were asked to categorize their web usage according to the following schema: Fact Finding, Information Gathering, Browsing, and Transactions. Using this data, we have identified three factors that play a role ...

**Keywords:** field study, navigation, navigation mechanism, task, web browser, web usage

14 Use of an expanding directory interface for WWW legal resources



Bert J. Dempsey, Barbara M. Wildemuth, Gary Geisler

August 1999

**Proceedings of the fourth ACM conference on Digital libraries**

Publisher: ACM Press

Full text available: pdf(30.76 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

**15** Browsers: Examining the content and privacy of web browsing incidental information

Kirstie Hawkey, Kori M. Inkpen

May 2006

**Proceedings of the 15th international conference on World Wide Web WWW '06**

Publisher: ACM Press

Full text available: pdf(246.06 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This research examines the privacy comfort levels of participants if others can view traces of their web browsing activity. During a week-long field study, participants used an electronic diary daily to annotate each web page visited with a privacy level. Content categories were used by participants to theoretically specify their privacy comfort for each category and by researchers to partition participants' actual browsing. The content categories were clustered into groups based on the dominant ...

**Keywords:** ad hoc collaboration, client-side logging, field study, personalization, privacy, web browsing behaviour, web page content

**16** RSVP Browser: Web Browsing on Small Screen Devices

O. de Bruijn, R. Spence, M. Y. Chong

January 2002

**Personal and Ubiquitous Computing**, Volume 6 Issue 4

Publisher: Springer-Verlag

Full text available: pdf(171.91 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

In this paper, we illustrate the use of space-time trade-offs for information presentation on small screens. We propose the use of Rapid Serial Visual Presentation (RSVP) to provide a rich set of navigational information for Web browsing. The principle of RSVP browsing is applied to the development of a Web browser for small screen devices, the RSVP browser. The results of an experiment in which Web browsing with the RSVP browser is compared with that of a typical WAP browser suggests that RSVP ...

**Keywords:** Mobile Internet, Mobile communication, Navigation, Rapid serial visual presentation, Small screen devices, WAP, Web browsing

**17** Usability and accessibility: Smartback: supporting users in back navigation

Natasa Milic-Frayling, Rachel Jones, Kerry Rodden, Gavin Smyth, Alan Blackwell, Ralph Sommerer

May 2004

**Proceedings of the 13th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(1.25 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents the design and user evaluation of SmartBack, a feature that complements the standard Back button by enabling users to jump directly to key pages in their navigation session, making common navigation activities more efficient. Defining key pages was informed by the findings of a user study that involved detailed monitoring of Web usage and analysis of Web browsing in terms of navigation trails. The pages accessible through SmartBack are determined automatically based on the st ...

**Keywords:** back navigation, browsing, navigation, revisitation, usability study, web trails, web usage

**18** Late breaking result papers: Document co-organization in an online knowledge community

Harris Wu, Michael D. Gordon, Kurt DeMaagd

April 2004

**CHI '04 extended abstracts on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(267.50 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce the concept of "document co-organization" and describe such a system. By document co-organization we mean that individuals are allowed to hierarchically organize documents personally and share their hierarchies with others, while the system generates a "consensus" hierarchy from these personal hierarchies, which provides a full, common, and emergent view of all documents. By allowing users to retrieve documents from their own organization (hierarchy), another user's, the consensus h ...

**Keywords:** document co-organization, knowledge community

**19** Display: Improving revisitation in fisheye views with visit wear

Amy Skopik, Carl Gutwin

April 2005

**Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(523.18 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The distortion caused by an interactive fisheye lens can make it difficult for people to remember items and locations in the data space. In this paper we introduce the idea of visit wear - a visual representation

of the places that the user has previously visited - as a way to improve navigation in spaces affected by distortion. We outline the design dimensions of visit wear, and report on two studies. The first shows that increasing the distortion of a fisheye view does significantly reduce peo ...

**Keywords:** edit wear, fisheye usability, fisheye views, focus+context techniques, memorability, spatial memory, visit wear

20  **Technical poster session 3: multimedia tools, end-systems, and applications: Challenges of networked media: integrating the navigational features of browsing histories and media playlists into a media browser**

André Pang, Conrad Parker, Silvia Pfeiffer

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Publisher: ACM Press

Full text available:  pdf (193.90 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the goals of the Continuous Media Web project<sup>1</sup> is to integrate digital media with the World Wide Web: media documents can hyperlink to and from other documents in the same way that HTML pages do. The dual capabilities of hyperlinking (1) to other documents while viewing a media clip, and (2) into precise time intervals in a media clip, enable greatly improved user interaction with media. We discuss the idea of a novel *media browser* application, which m ...





**Keywords:** annodex, browsing history, continuous media web, media browser, playlist

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IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
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- ☐ 1. **Domain name based visualization of Web histories in a zoomable user interface**  
 Gandhi, R.; Kumar, G.; Bederson, B.; Shneiderman, B.;  
[Database and Expert Systems Applications, 2000. Proceedings. 11th International Workshop on 4-8 Sept. 2000](#) Page(s):591 - 598  
 Digital Object Identifier 10.1109/DEXA.2000.875085  
[AbstractPlus](#) | Full Text: [PDF\(1060 KB\)](#) IEEE CNF  
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van Waes, L.;  
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Volume 43, Issue 3, Sept. 2000 Page(s):279 - 291  
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Intelligent Processing Systems, 1997. ICIPS '97. 1997 IEEE International Conference on  
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22-25 Oct. 1997 Page(s):223 - 230  
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19-21 June 1996 Page(s):158 - 167

Digital Object Identifier 10.1109/IWSM.1996.534159

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